

SECTION 08 38 00

IMPACT TRAFFIC DOORS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Monolithically (one piece) formed, insulated, impact door systems
2. Spring bumpers Windows
3. Hardware and accessories

B. Related Sections:

1. Section 05500 - Metal Fabrications: Prepared opening with steel channel jambs and header.

1.2 SUBMITTALS

A. Reference Section 01330 - Submittal Procedures; submit the following items:

1. Product information in print or electronic formats.
2. Shop Drawings: Show fabrication details.
Include door elevations, head, jamb, and meeting stile details including full or partial gaskets.
3. Samples: Full range of manufacturer's standard color selections for panel.
4. Quality Assurance/Control Submittals:
 - a. Manufacturer's Installation Instructions.
5. Closeout Submittals:
 - a. Cleaning and Maintenance instructions
 - b. Warranty

1.3 QUALITY ASSURANCE

A. Qualifications:

1. Manufacturer Qualifications: Minimum 5 years experience in producing doors of the type specified.

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1.4 DELIVERY STORAGE AND HANDLING

- A. Section 01660 - Product Storage and Handling Requirements: Transport, handle, store and protect Products.
- B. Deliver product in manufacturer's original unopened packages with label legible and intact.
- C. Examine doors upon delivery for damage. Verify doors were shipped on edge or in upright position as indicated on packaging by manufacturer.
 - 1. Note specific doors shipped in other than on edge or upright position on bill of lading and contact manufacturer.
- D. Store doors at project site on edge or in upright position and under cover following manufacturer's instructions printed on carton.

1.5 PROJECT/SITE CONDITIONS

- A. Existing Conditions: Frames installed, under other sections, shall be level and plumb.

1.6. WARRANTY

- A. 365 days from the date of installation or 395 days from the date of shipment, whichever comes first.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Subject to compliance with requirements, No Substitutions
 - 1. Manufacturer: Chase Industries, Inc. (DBA Chase Doors)
Durus Products, 2809 SW 13th Street, Redmond, OR 97756
Telephone: (800) 543-4455. Fax: (800) 285-0126.
- B. Model: Durulite Retailer XHD

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2.2 DOOR COMPONENTS

- A. Door Panel: shall be a monolithic, hollow shell of high impact, cross-linked polyethylene with minimum wall thickness of 1/8", overall panel thickness of 1-1/2" and textured finish. Leading edge has molded in key extrusion to accept gaskets. The bottom edge is fitted with a PVC nosing which will accept gasket. The back edge has an extruded aluminum spine with a keyway that accepts a blade gasket. The top edge has a 1/8" radius.
- B. Door Panel Core: shall be of high density, foamed-in-place non-CFC urethane foam bonded to interior of the high density cross linked polyethylene shell providing an insulating R factor of 9.86.
- C. Standard Hinge System: consists of the following components:
 - 1. Upper hinge: self-closing "V" cam design; [1-3/8" standard rise]. The fully composite VCam and aluminum roller assembly with stainless steel roller resists corrosion and rust. Upper hinge seal shall be semi-rigid black PVC wrapped around a rigid HDPE cup that mounts directly to the VCam assembly and moves vertically with the door panel.
 - 2. Lower Hinge: Stainless steel lower hinge guard with UHMW sleeve.
 - 3. Hinge Shaft: 1" diameter solid aluminum rod mounted to the top and the bottom of the aluminum back spine and fastened by screws and roll pin inside of the spine. The rod rests in the UHMW Sleeve that is mounted in the Lower Hinge Guard. The Roller Assembly mounts to the top of the aluminum rod and rests on the V-Cam.
- D. Vision Panel: Window glazing shall be 1/8" thick polycarbonate with a 1/2" thick santoprene Cap Separator placed between two 1/8" thick ABS Frames. [On the optional double pane window the santoprene Cap Separator is placed between two 1/8" thick ABS Frames]. Maximum height from finish floor to the bottom of the viewing area shall not exceed 48".

PANEL SIZE

18" to 27"
24" to 32"
32" to 36"
36" and up

WINDOW SIZE

8 X 14
8 x 14, 12 x 18
8 x 14, 12 x 18 & 16 x 16
8 x 14, 12 x 18, 16 x 16
& 17 x 23

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- E. Gaskets: Gaskets shall be 55 to 70 durometer extruded black santoprene fitted into matching, pre-formed gasket key and held by friction. Gaskets have wings, which seal against the door surface.
1. [Fully Gasketed: a blade-type gasket is used on the leading Edge for double doors (bulb type for single panels), the bottom edge and between the back edge of the door and jamb. Top seal is a co-extruded PVC extrusion with flexible PVC gasket and is mounted to the header]

OR

1. [Partially Gasketed: Leading edge shall be [blade-type for a double door and/or a single panel]

THE FOLLOWING ACCESSORIES ARE OPTIONAL. SELECT AS DESIRED AND DELETE OTHERS

2.3 ACCESSORIES

- A. Polyethylene Spring Bumpers, 3" projection, height shall be [6", 12", 18", 24", 30", 36" or 42"]. Color to be determined by Architect from manufacturers standard selection.

AND/OR

- C. Double Pane View Windows *(for use when ambient temperature between areas is 30° or more. Not to be used on freezer doors)*

AND/OR

- D. Limiting Posts, architecture to select from manufacture's standard selection.

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2.4 FABRICATION

- A. An oversized panel is roto-molded with leading edge gasket extrusions in place. Panel is then foamed-in-place with non-CFC urethane. The panel is then cut to required size, drilled, fit with hardware, vision panel, gasketing and required options installed. Completed door is serialized and packaged with hinge mounting hardware kit.
- B. Complete unit to be assembled at factory, neat in appearance, free from defects and warping.

2.5 SOURCE QUALITY CONTROL

- A. Tolerances: Width and height of each panel: +/-1/4 inch. Maximum allowable deflection shall meet industry standards of a 1/4" per 36.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that opening is ready to receive work and opening dimensions and clearances are as indicated on drawings.
- B. Coordinate with responsible entity to perform corrective work on unsatisfactory conditions.
- C. Commencement of work by installer is acceptance of opening conditions.

3.2 INSTALLATION

- A. Follow manufacturer's instructions. Coordinate sequence of installation with other work to avoid delays.
- B. Install doors accurately in their respective frames with clearances, necessary anchors, hardware and accessories according to the manufacturer's data and as specified.

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3.3 ADJUSTING

- A. Follow manufacturer's instructions as required to:
 - 1. Clean and lubricate operating parts.
 - 2. Adjust to open and close smoothly and freely without binding
 - 3. Check seals for proper fit.

3.4 CLEANING

- A. Clean surfaces soiled by work as recommended by manufacturer.
- B. Remove surplus materials and debris from the site.

END OF SECTION